120

Packaging

QC6- Inspect dimensions to drawing

0.0

Siolois CE

(centro

Quality Control

Memo

0.00

Dart Aerospace Ltd	erospace Ltd
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Dail Ac	ospace Ltu							
W/O:			WORK ORDER (•	
DATE	STEP	Р	ROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Category:	NCR: Ye	s No DQ	A:	Date: _	
			Disposition:					

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	0750	Description of NC		Corrective Action Section B		Verification	Annessal	Annuarat	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector	
	1		1					·	

January 21, 2010 2:24:43 PM

Item ID:

D3837-4

Revision ID:

Decal Item Name:

Start Date:

1/21/10

Required Date: 1/27/10

Start Qty: 20.00 Req'd Qty: 20.00 Accept



Setup Start

Stop

Cust Item ID:

Customer:

Draw

Number

Reference:

Approvals:

Process Plan:

Date:

Date: _____

Tooling: SPC (Y/N): Date:

Date:

Draw

Rev.

Plan

Code

Reject

Qty

Stop



Sequence ID/ Work Center ID

130

Packaging

Packaging

Operation Description

Identify as per dwg & Stock Location: 72

Memo

Memo

Set Up/ **Run Hours**

0.00

0.00

Run

Accept

Qty

Start

Reject Insp.

Number Stamp

140

QC21- Final Inspection - Work Order Release

0.00



Quality Control

0.00

10 602/03 AJ MF 10-2-2

Dart Aeros	pace Ltd
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W/O:			W	ORK ORDER CHANG	GES			`	•
DATE	STEP	PRO	OCEDURE CHA	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	-	PAR #:	Fault Cate	egory:	NCR: Yes	No DQ	A:	_ Date: _	
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NCR:			WORK ORD	ER NON-CONFORM	ANCE (NC	R)			
DATE	STEP	Description of NC			ction B	Verific	cation	Approval	Approval
	J.E.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		on C	Chief Eng	QC Inspector
]
i									

, Picklist'Print'

January 21, 2010 2:24:47 PM

Work Order ID: 55570

Parent Item: D3837-4

Parent Item Name:

Comments:

Decal

IPP RevA: new issue DD 10.01.21 verified by:EC

Start Date: 1/21/10

Required Date: 1/27/10

Start Qty: 20.00 Required Qty: 20.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
Item Name	Item ID	Purch	Item	Location	Location	Seq ID	Measure	Hand	Qty To Pick	Issued	Issued	
D3837-4P	UARI II 1881	Purchased	No			110	Each	0.0000	20.0000	1000	101/27	20

Dart	Aeros	space	Ltd

Dart Ae	rospace Ltd							
W/O:			WORK ORDER	CHANGES			3	
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Category:	NCR: Yes	No DQ	A :	_ Date: _	
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NOD			WORK ORDER NON-CON	FORMANCE (NC	R)			

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section B	}	Verification	A	Ammuousi	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector	

SIDE BAGGAGE COMPARTMENTS MAXIMUM DISTRIBUTED LOAD LH COMPARTMENT - 482 lb / 219 kg RH COMPARTMENT - 427 lb / 194 kg 62.5 lb/ft2 or 300 kg/m2

D3837-1 DECAL

Spacepod

MAXIMUM DISTRIBUTED LOAD IN THIS COMPARTMENT 482 lb / 219 kg 62.5 lb/ft² or 300 kg/m²

D3837-3

2.5

D3837-3 DECAL

SHOP COFY RETURGEY) ENGINEERING UNCONTROLL FD COn.

2.5

SUBJECT TO AMENDMEN.

STATOR FJOHTIW WORK ORDER

Spacepod

MAXIMUM DISTRIBUTED LOAD IN THIS COMPARTMENT 427 lb / 194 kg 62.5 lb/ft2 or 300 kg/m2

D3837-4 DECAL

Α	NEW IS	SUE		5	08.11.11
REV.			DESCRIPTION	BY	DATE
DESIGI	v	4	DART AE	ROSPACE L	D
DRAW	N		HAWKESBURY	r, ONTARIO, CANAI	DA
CHECK	ED	10	DRAWING NO.		REV. A
MFG. A	PPR.	BO	D3837		SHEET 1 OF 1
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1) MATERIAL: 3M 7 MIL MASKING FILM #8522CP OR AVERY IPM #2031 2) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED 3) UNITS: INCHES UNLESS OTHERWISE NOTED

D3837-4

Dart Ae	rospace L	td							≠ ,¢,
W/O:			W	ORK ORDER CHANGE	ES			,	•
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Da	te Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cat	egory:	NCR: Ye	es No	DQA:	Date: _	
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DATE	CTED	Description of NC		Corrective Action Section	on B	v	erification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		n & ate	Section C	Chief Eng	QC Inspector

Product Bulletin 8522

3M

Release F, Effective January 2003. Black bar in margin indicates a change

Scotchcal [™] Opaque Imaging Media 8522

Description

This media is specially formulated to dry quickly after printing. Production of outdoor weatherable and long-term indoor durable graphics is now easier than ever. Its changeable adhesive allows easy removal for up to one year.

Advantages

- Optimized for use with selected Epson Stylus Proprinters and Epson Archival inks.
- Optimized for use with selected HP DesignJet Printers and HP DesignJet Ink System UV or HP83UV Color Ink System
- For making opaque, laminated graphics that are outdoor weatherable and long-term indoor durable
- Media:
 - For opaque (reflective) graphics
 - Changeable, easy to remove from warranted substrates up to 1 year later
 - Dries quickly after printing so the overlaminate can be applied almost immediately
 - Low slippage paper liner for superior tiling
- Overlaminates:
 - Provide additional UV (ultraviolet) and physical protection for making weatherable finished graphics
- Available in luster and matte gloss
- Adhesive allows for heat-assisted or cold-temperature lamination

Applications and Uses

3M * Scotcheal * Changeable Opaque Imaging Media 8522 is intended only for ink jet printing and for use with the listed Compatible Products and Equipment and the following applications. Any other application is NOT warranted by 3M or covered by the worldwide 3M * MCS * Warranty unless 3M gives its prior written approval for the application.

- First surface images (the image is on top of the film) for opaque posters and signs, including:
 - Graphics for vans, personal vehicles, trucks and buses
 - Novelty posters
 - Retail and point-of-purchase displays
 - Information graphics such as maps and directories
 - Entertainment promotions in museums, zoos, parks, theatres, sports venues
 - Education and presentation graphics

- Legal and courtroom exhibits
- For flat or simple curved surfaces, with or without rivers, used in vertical (± 10°) applications

Limitations of End Uses

The following uses and applications are specifically NOT warranted.

- Fleet applications in areas that use salt for winter road maintenance
- Application to non-warranted substrates, including wallboard
- Applications subjected to gasoline vapors or spills
- Application to corrugated or highly irregular surfaces or sharply raised areas
- Graphics applied to stainless steel, including stainless steel vehicles
- On flat surfaces with rivets, tenting of 4 to 10 mm around rivets may be expected; rivets may be cut around to eliminate tenting.

Note: Standard ink jet technology is water based. Water-based chemistry is susceptible to the extremes of heat and humidity. This is a factor in most product constructions on the market. Read the Fabrication. Shelf Life and Storage sections in this bulletin. Staying in the middle of these ranges always provides optimum performance.

Compatible Products and Equipment

Thermal Ink Jet Printing Systems

- Epson Stylus Pro 9500, Stylus Pro 10000 printer
 - Epson Archival Inks
- Epson Stylus Pro 10600 printer
 - Epson Archival Inks
- HP DesignJet Printers 2000 and 3000 series
 - HP DesignJet Ink System UV (pigment-based ink)
- HP DesignJet Printers 5000 series
 - HP83UV Color Ink System

Overlaminates (required)

- 3M Luster Overlaminate 8519 (semi-gloss)
- 3M Matte Overlaminate 8520

Note: For the full product names of the 3M products listed on this page, please see page 1.

Warranted Substrates

Media 8522 is warranted for use on the following rigid substrates

Some substrates may "out-gas", resulting in tiny bubbles throughout the surface of the graphic. For maximum performance, be sure the substrate you select is properly cleaned and prepared as recommended by the manufacturer. See Instruction Bulletin 5.1 for additional information.

- Alodine (anodized aluminum)
- Automotive panels (automotive painted steel)
- Fruehauf (painted aluminum)
- FRP (fiberglass reinforced plywood)
- Imron 5 (polyurethane-painted metal panel)
- Acrylic
- Sintra " board

Test and Approve Non-warranted Substrates Before Use

Media 8522 is not warranted for any substrate other than those listed above. If you want to use it for other substrates, 3M recommends that you test and approve the media for both adhesion and removal characteristics.

Characteristics

Characteristic	Description
Media	7 mil, white, opaque graphic film
Liner	Low-slippage, lay flat paper
Adhesive	Changeable, pressure sensitive
Thickness (media and adhesive)	7.5 to 8 mil (nominal)
Application substrates	See Warranted Substrates, above
Application surfaces	Flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications (no corrugations)
Application temperature range	28: to 110°F (-2° to 43°C) (air and surface)
Roll sizes	36" x 45 feet (914 mm x 13.5 m) 54" x 45 feet (1372 mm x 13.5 m)

How to Become a 3M Ink Jet **Registered Fabricator**

Only 3M Thermal Ink Jet Registered Fabricators are eligible to offer 3M MCS warranted graphics. In order to become certified, a fabricator must complete the requirements as specified in the 3M Ink Jet Graphics Registered Fabricator Reference Manual located on the 3M website at www. scotchprint.com

Effective Performance Life

To obtain the warranty given below, the graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3. Also see the section, Removability.

Warranted Durability

Media 8522	Epson Printers		HP Printers		
with Overlaminate 8519 or 8520	Outdoor	Indoor	Outdoor	Indoor	
Applied to Warranted Substrates	2 years	5 years	3 years	5 years	

Removability

Imaging media 8522 is removable from warranted substrates for I year without the aid of chemical strippers or accessories. Refer to Instruction Bulletin 4.23 for additional information.

Fabrication

Graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3.

See Instruction Bulletin 4.23 for detailed fabrication, printing and mounting information.

Graphic Construction Options

Opaque (Reflective) Graphics

Opaque graphics made with imaging media 8522 require an overlaminate and an opaque substrate.

Viewer/Light Source	
	Overlaminate 8519, 8520 Adhesive on bottom
	Imaging Media 8522 Image on top; adhesive on bottom
	Opaque Substrate

Note: For the full product names of the 3M products listed on this page, please see page 1.

Shelf Life and Storage

- 3M * Scotchcal * Changeable Opaque Imaging Media 8522 has a shelt life of one year.
- Storage conditions (new and partially used rolls). For optimum performance, use the middle of these ranges;
 - Original packaging, including plastic wrap
 - Relative humidity of 20% to 80%
 - Temperature of 33° to 104°F (0° to 40°C)
 - Away from direct sunlight
- Do not stack unprotected rolls or lay sharp or heavy objects on them.

Health and Safety

∕:∖ Caution

When handling any chemical products, read the manufacturers' container labels and the Material Safety Data Sheets (MSDS) for important health, safety and environmental information.

To obtain MSDS sheets for 3M products:

- By fax, call 1-800-364-0768 in the US and Canada or 1-650-556-8417 for all other locations.
- Electronically, visit us at http://www.3M.com/msds.
- By mail, or in case of an emergency, call 1 800-364-3577 or 1-651-737-6501.

When using any equipment, always follow the manufacturers' instructions for safe operation.

Warranty and Limited Remedies

3M " MCS Warranty for Graphics Produced on HP DesignJet Printers and Epson Stylus Pro Printers

The following is made in lieu of all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose: We warrant graphics produced by a 3M Ink Jet Registered Fabricator made with imaging media 8522, printed on an approved HP thermal ink jet printer according to HP's recommendations or Epson Stylus Pro printer according to Epson's recommendations. overlaminated with 8519 or 8520, and applied to a Warranted Substrate according to 3M's recommendations. These

3M Canada

P.O. Box 5757

London, Ontano

Canada N6A 4T1

1-800-265-1840

Fax 519-452-6245

graphics are covered against failure caused by ultraviolet light, temperature extremes, pollution, and other elements.

If a graphic fails to perform in accordance with 3M product specifications within this time frame, 3M will replace the materials at no charge. These remedies are exclusive. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor charges.

3M Related Literature

Listed below is related 3M technical literature that may be of interest. You may view and print these Bulletins from our Web site at www.scotchprint.com, or order them via our Faxon-Demand (FOD) system. Call one of these phone numbers to order the desired bulletins, and specify the FOD document number provided in the chart.

United States or Canada: 1-800-364-0768 International: 1-651-732-6506

International: 1-651-732-6506	Bulletin No.	FOD No.
Subject Product Bulletins		
3M." Scotchcal." Overlaminate 8519 and 8520	8519/8520	4524
Instruction Bulletins	T. 22	6523
Making thermal ink jet graphics	4.23	
Application, substrate selection, preparation and substrate-specific application techniques	5.1	7(0)
Warranties		950.
Worldwide 3M " MCS " Warranty Pack tincludes all Commercial Graphics MCS Wa	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	950-
Worldwide 3M * MCS * Warranty Overview-Folder		

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Bulletin Change Summary

The Epson Stylus Pro Printers 95(X), 10000 10600, and Epson Archival Inks have been added to this bulletin. Additional changes resulting from this addition are marked with black bars in the margin.

3M

Commercial Graphics Division

IM Center, Building 220-6W-06 PO Box 33220 St. Paul, MN 55133-3220 - USA General Into 1-800-374-6772

technical Into 1-800-328-3908 1-ax 1-651-736-4233

Fax on-Demand 1-800-364-0768 1 S/Canada or 1-651-732-6506 International Fax on-Demand document 4506 was was cotchprint com3M México, S.A. de C.V.

Av. Santa Fe No. 55 Col. Santa Fe, Del. Alvaro Obregón México, D.F. 01210 52-55-52-7()-()4-(X) Fux 52-55-52-70-22-77

3M Puerto Rico, Inc. Puerto Rico Industrial Park P.O. Box 100

Carolina, PR 00986-0100 787-620-3000 Fax 787-750-3035

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210 MAIN W.,

HAWKESBURY, ONT. K6A 2H6

Tel.: 613 632-2001 Fax: 613 632-9491 www.studiolettrage.com INVOICE / FACTURE

No.:

13317

DATE:

PAGE

01/27/2010

1 of 1

Re: Quote No. 8216

Dart Aerospace Ltd

1270 Aberdeen Hawkesbury, Ontario

K6A 1K7

VENDU À:

SOLD TO:

Dart Aerospace Ltd

LIVRÉ À:

SHIPPED TO:

Hawkesbury, Ontario

ITEM ARTICLE	QTY QYÉ	UNIT UNITÉ	DESCRIPTION	GST TPS	PST TVP	UNIT PRICE PRIX UNITÉ	AMOUN MONTAI
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			PO011197 E - GST @ 5% GST PST Exempt: #6122-5207				26.25
			/				
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011197	80 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2					TOTAL	551.25